Author Index to Volume 12

Berlin, A. A., 1
Krässig, H., 323
Matveyeva, N. G., 1
Reimschuessel, H. K., 65
Sperling, L. H., 141
Woody, R. W., 181

J. POLYMER SCI.: Macromolecular Reviews, Vol. 12, 411 (1977)
© 1977 by John Wiley & Sons, Inc.

Subject Index to Volume 12

AB crosslinked copolymers, 143, 146, 152
Abrasion, 388
Abrasion resistance, 343, 346
Absorption, 386
Addition, 388ff
Additives, 385ff
Adhesion, 325, 384ff
Air knives, 350
Alginates, CD of, 304
α-helix, CD of, 207ff
Amides, absorption spectra of, 206, 219
Amorphous regions, state, glass, 346
Anionic polymerization, 78, 81, 117–121, 125
Anistropy, 324, 331, 368
Antistatic, 370, 387–388

Bending, 374ff
β-structures, CD of, 230ff
β-turns, CD of, 233, 258, 259
Bicomponent, 382ff, 391
Bis(methacryloxyethyl carbamate tolulene-2-carbamic)ester, of oligodiene diol, 42
—, oligoether diol, 42
—, oligoethylene glycol, 43, 49
Blend, 343ff, 378, 388
Block copolymers, 142
Blown film, 346–354, 388
Bond energies, hydrogen, 324, 385
Brush, 320, 372
Brushing, 329, 331, 376
Bubble-blowing of films, 350
Bulk process, 382, 391

Camphorsulfonic acid, CD calibration with, 222
Caprolactam synthesis, 83–90
Carboxy terminated butadiene nitrile polymers (CTBN), 153
Carpet, 323, 329, 337, 368, 392, 395, 399
—, backing, 368
Cationic polymerization, 78, 121–124
Cellulose/cellulosic material, 324
Chain molecule, 357
Chloroparaffin, 43
—, chemical transformation of, 44
—, dehydrochlorinated, 44
Chondroitin sulfate, CD of, 303
Circular dichroism, (CD) calibration, 222
—, fluorescence-detected, 188
—, infrared, 1851, 205
—, instrumentation, 183ff
—, of oriented systems, 192ff
—, reflection, 187
—, theory of, 194ff, 207, 209ff, 221, 235ff, 245ff, 255, 256, 257, 258, 259, 260, 262, 263, 268, 272, 282, 284, 287, 288, 299ff
—, vacuum ultraviolet, 184, 219, 243, 254, 297, 298, 303, 304
Circular polarization of emission, 189
Collagen, 244ff, 251
Condensation telomerization, 31
Continuous polymerization reactors, 131–133
Co-oligomer, of epoxide and phtalic anhydride, 26
—, of ethylene oxide and propylene oxide, 25
—, of glycidyl ether and phtalic anhydride, 27
—, of tetrahydrofuran and propylene oxide, 15, 16, 53
Cooling, 346–350, 397
Copolymers, 343ff
Copolymer, of acrylonitrile and diene, 8, 43
—, of butadiene and methyl methacrylate, 8
—, of butadiene and styrene, 8, 43
—, of ethylene glycol, trimethylol propane and adipic acid, 53

J. POLYMER SCI.: Macromolecular Reviews, Vol. 12, 413–419 (1977)
© 1977 by John Wiley & Sons, Inc.

—, of isoprene and isobutylene, 43
Copolymerization (see also Polymerization), 388
Crimp, 381–385
Crystal, 346
Crystalline forms, 347
Crystallinity, 72, 347ff, 384
Crystallization, 324, 343ff
Cut, 325ff, 329, 333, 338, 374, 378
Cutting, 327ff, 337ff, 350, 358ff, 378ff, 392
Cyclic oligomers, 106, 108, 109
Cyclization constants, 107
Cyclooligoamide, 40
Cyclooligocaproamide, 39
Cyclooligoester, 40
Cyclooligoethylene urethane, 40

Davies equation, 166
Decarboxylation, 110–112
Decrosslinking, 147
Degradation, 354ff, 363
Delustring, 388
Denier, 338ff, 376ff, 391ff, 397ff
Density, 324, 341–347, 352ff, 359, 364, 386ff, 394
Desamination, 110
DeVoe theory of CD, 203, 302
Diketopiperazines, CD of, 207
Di(methacrylate ethylene glycol) adipate, 52
—, carbonate, ethylene glycol, 52
—, phtalate, 53
—, sebacate, 52
Dinucleoside phosphates, CD of, 284ff
DNA, CD of, 294ff
Drawing (draw), 329, 331, 336ff, 340, 357–363, 366–370, 373
—, of fibers and films, 331ff, 335, 337
Draw ratio, 329, 357–360, 368ff, 390, 394, 397
Dry cleaning, 387
Dyeability, 387ff

Elastomers, 346
Electro-optic modulator, 184
Emission, circular polarization of, 189
Enthalpy of polymerization, 92, 93
Entropy of polymerization, 92
Equilibrium constants, 92–94
Equilibrium water concentration, 98, 103
Exciton theory, 195ff, 209, 212, 235, 245
Extrusion, conditions, 323, 340
—, of fiber, 323
—, of film, 325ff, 331–335, 343–358, 368ff, 376, 380, 385, 390, 394, 396ff
—, temperatures, 331, 354ff, 363, 366, 385

Fabrics, 368, 395
Fiber manufacture (processing), 329, 390
Fibers, 329, 336, 341–346, 357, 368, 382, 387ff, 394
Fiber-shape cross section, 331–340, 385, 390ff, 394
Fibrillation, 323, 330ff, 340–345, 352–362, 367, 372–379, 388, 391–395
Fibrils, 376
Filament, 323, 328, 331, 333ff, 378–383, 390, 394
Film, 323–395
Films, fibrillation, 340
—, applications, 324, 331
—, manufacture, 329
Film tapes, 323–331, 343–376, 385–396
Filmfiber, 324, 360ff, 367–371, 376–399
Film to fiber, 329–331, 333, 338ff, 346, 372ff, 376ff, 394
Film yarn, 329
Filter, 395
Finish, 397
Flame retardancy, 387, 389
Flow rate, 340
Fluorescence-detected CD, 188
Functionality of oligomer, number-average, 9, 14, 24, 29, 31
—, specific, 37
—, weight-average, 14
Functional-type distribution, 5, 9, 14, 23, 24, 29

Galactose, 304

Glass transition, 78
Glass transitions, 165ff
Gloss, 343
Glucose, 304
Graft copolymerization on oligomer, 45, 46
Graft copolymers, 142, 144
Group inverse operations, 147
Group theory, 145ff

Hand, handle, 343, 382, 391ff
Heat of fusion, 77
Heat setting, roller, 384, 390
Heat treatments, heating, 381–386
Heparin, CD of, 303
High-impact polystyrene (HIPS), 144, 156, 172
Hyaluronic acid, CD of, 304
Hydrolytic polymerization, 78–81, 90–98, 124–134

Infrared, 366ff
—, dichroism, 382
—, heating, 366, 370
Infrared, CD in, 185, 205
Instrumentation, CD, 183ff
Interaction constants, 71
Interpenetrating polymer networks (IPNs), 141, 151, 152ff
—, acrylic/urethane, 151, 173
—, castor oil-urethane/polystyrene, 161, 162
—, core-shell morphology, latex, 169
—, damping, 167, 169, 171
—, differential scanning calorimetry, 163
—, electron microscopy, 152, 156, 157ff
—, epoxy/acrylic, 161
—, gradient IPNs, 155
—, impact resistance, 172
—, interpenetrating elastomer networks (IENs), 143, 151, 152, 173
—, interpenetration problem, 165
—, latex, 153, 169
—, Millar IPNs, 151
—, modulus-temperature behavior, 166
—, morphology, 151, 152, 155, 157, 158, 162, 165
—, noise damping, 155, 169
—, patents, 145, 151, 153
—, phase domain size, 161
—, phase inversion, 157, 162
—, polybutadiene/polystyrene (PB/PS), 156, 172
—, poly(ethyl acrylate)/poly(methyl methacrylate) (PEA/PMMA), 158, 169
—, poly(ethyl acrylate)/polystyrene (PEA/PS), 157, 167, 169
—, poly(ethyl acrylate)/poly(styrene-co-methyl methacrylate) [PEA/P(S-co-MMA)], 158
—, poly(*n*-butyl acrylate)/poly(ethyl methacrylate) (Pn-BA/PEMA), 169
—, polystyrene/poly(ethyl acrylate), 160, 167, 169
—, polyurethane/polystyrene, 161
—, poly(vinyl chloride)/poly(butadiene-co-acrylonitrile) [PVC/P(B-co-AN)], 172
—, semi-IPN, 144, 148, 157, 173
—, "Silent Paint," 172
—, simultaneous interpenetrating networks (SINs), 143, 161, 175
—, simultaneous synthesis, 154
—, thermoset nature, 153
—, threaded macrocycles, 155
—, toughening, 172, 175
—, urethane-urea/polyacrylate, 151

Jet, jetting, 376ff, 384

Kerner equation, 166
Kinetics, rapid reaction, CD detection of, 186
Knit, 327, 396

Light stability, 385–387
Light stabilizers, 385ff
Linear dichroism, 218, 236, 242
Liquid crystals, CD of, 185, 193
Lubrication, 389

Macrocycle, 13, 36, 38, 40
Maxwell demon, 151, 165
Mechanical properties, 346ff, 390
—, extension (elongation, 325, 340–345, 360–363
—,—, at break, 343, 364, 368
—, friction, 387, 391, 394
—, hardness, 359
—, strength, 324
—,—, impact (toughness), 346
Melt-flow index (melt index), 340–343, 357ff, 366, 385
Melting temperature/point, 385
Melting temperature (see thermal properties), 344ff
Melt-spun fibers, 388
Microscopy, 382ff
Mixing, 387
Mixture of polymers, 331
Molecular orientation, 348, 363
Molecular structure, 331
Molecular topologies, 153
Molecular weight, 343ff, 357ff, 366, 385

Needle roll, 336, 358ff, 374, 376ff
Network, 331–337, 348, 374–378, 390, 394
Nomenclature of polymers, 145ff
Nonwovens, 335, 392, 395ff
Nucleotides, CD of, 279ff
Nylon 6, 65

Olefin monomer, 388
Oligoaddition, 28, 35
Oligoalanine, 37
Oligoalkylene glycol formal, 15, 16
Oligoamide acrylate, 33
Oligoamine, 6
Oligobutadiene, 9, 20, 21
—, α,ω-dicarboxy, 8, 20
—, α,ω-dihydroxy, 8, 9, 20
—,—, functionality of, 9
—,—, molecular-weight distribution of, 9
Oligobutylene, 28
Oligocaproamide, 37, 38, 51
Oligocarbonate acrylate, 33
Oligocondensation, 28
Oligodiene, 6, 8, 9, 18, 20, 21, 23, 46
—, α,ω-dicarboxy, 8, 9, 20
—, α,ω-dihydroxy, 8, 9, 20
Oligodiethylene glycol adipate, 53
—, mallate, 53
Oligoester, 6
—, acrylate, 29, 30, 32
—, diol, 6, 31, 41
—, epoxide, 6
—, maleate, 30
—, nitrogen containing, 35
—, phosphor containing, 34
—, unsaturated, 6, 27
Oligoether, 15, 29
—, α,ω-dihydroxy, 23
—, fluorinated, 35
Oligoethylene, 28
—, glycol adipate, 31
—,—, terephtalate, 37
Oligohexamethylene adipamide, 38
Oligohexene, 28
Oligoisoprene, 8, 20
—, α,ω-dicarboxy, 9, 20
—,—, with unsaturated end groups, 21
—, α,ω-dihydroxy, 9, 20
Oligomer, 1
—, amine aldehyde, 6
—, chemical transformation of, 41
—, crystallization mechanism of, 41
—, density of, 50
—, elastic deformation of, 53
—, functionality of, 5, 9, 14, 23, 24, 29
—, melting temperature of, 48, 49
—, molecular homogeneous, 1, 36
—, molecular weight distribution of, 5, 8, 9, 14, 16, 23, 24, 29, 30, 31, 43
—, phenol formaldehyde, 6
—, polycondensation capable, 6
—, polymerizable, 6
—, polyreactive, 2, 5, 6
—, viscosity of, 50, 51
Oligomerization, 1
—, anionic, 18
—, cationic, 11
—, coordinative, 27

—,—, cyclic monomers, 13, 23
—,—, unsaturated monomers, 11, 18
—, radical, 7
Optimization (of polymerization), 127–131
Orientation, 324–329, 348, 352–368, 373, 376, 384, 396
—, anisotropy, 328, 394
Oriented systems, CD of, 192ff, 218, 219, 242, 298, 301
Osmium tetroxide staining, 152, 156, 161
Oxidative decomposition, 112, 116

Paper, 324, 327, 395
Patents, 346, 372, 380, 388
Pattern, 335ff
Phase separation, 142, 152ff
Photoelastic modulator, 184, 187
Pigments, 359, 378, 386ff
Pilling, 391–394
Plainomer, 4
Pockels effect, 184
Polarizability theory of CD, 203, 302
Polarized light, 346, 382
Poly(A), 290ff
Poly(A)-Poly(U), 294
Poly(*p*-acetoxy Phe), 272
Poly(Ala), 211, 221, 222, 223, 224, 225, 253, 254
Poly(Ala-Ala-Gly), 253
Poly(*p*-NH_2Phe), 270, 272
Poly(β-asp), 253
Poly(Asp-OBzl), 226, 227
Poly(Asp-OMe), 226, 227, 229
Poly(1-Bzl-His), 277, 278
Poly(C), 290, 291
Poly(N^{ω}-Cbz-*p*-amino Phe), 270
Poly(N^{ϵ}-Cbz-Lys), 224, 225
Poly(*p*-Cl Phe), 272
Poly(*cis*-5-Me Pro), 244
Poly(Cys-SBzl), 231
Poly(Cys-S-CH_2CH_2COOH), 231, 233
Poly(Cys-SMe), 231
Poly(Cys-S-MeCbz), 230
Poly(dA), 294
Poly(dA-T)-Poly(dA-T), 294
Poly(dG)-Poly(dC), 294
Poly(G), 290ff
Poly(G)-Poly(C), 294
Poly(Glu), 211, 218, 224, 225, 228, 249, 250, 251, 252, 253, 254, 255
Poly(γ-Glu), 253
Poly(Glu-OBzl), 192, 221, 228, 230
Poly(Glu-O-*n*-dodecyl), 226, 228
Poly(Glu-OEt), 229
Poly(Glu-OMe), 192, 211, 218, 220, 221, 224, 225, 229, 253
Poly(Glu-Ala), 253
Poly(Gly-Pro-Pro), 245
Poly(His), 274, 275, 276
Poly(Homo Ser), 224, 225
Poly(N^5-ω-hydroxybutyl-Gln), 223
Poly(N^5-2-hydroxyethyl-Gln), 251, 253
Poly(N^5-3-hydroxylpropyl-Gln), 251
Poly(Hyp), 244
Poly(Hyp-O-acetyl), 244
Poly(Hyp-O-benzyl), 244
Poly(Hyp-O-phenacetyl), 244
Poly(I), 291ff
Poly(Lys), 208, 211, 223, 224, 225, 228, 229, 231, 232, 236, 239, 249, 250, 251, 252, 253
Poly[γ-(−)-menthyl-D-Glu], 226
Poly(Met), 224, 225, 229
Poly(N-Me Ala), 257, 258
Poly(γ-morpholinylethyl-Gln), 211
Poly(β-1-naphthylmethyl-Asp), 278
Poly(γ-1-naphthylmethyl-Glu), 278
Poly(*p*-NO_2Phe), 271, 272
Poly(Nva-Gly-Pro), 245
Poly(Orn), 250
Poly(N^{ϵ}-pelargonyl-Lys), 226
Poly(Phe), 268, 269
Poly(*p*-phenylazoPhe), 269
Poly(Pro), 221, 240ff, 250, 251, 252, 254, 255
Poly(Pro-Ala-Gly), 245
Poly(Pro-Pro-β-Ala), 245
Poly(Pro-Ser-Gly), 245
Poly(Ser), 231, 232, 233
Poly(N^{ϵ}-stearyl-Lys), 226
Poly(Trp), 272, 273

Poly(Tyr), 260ff
Poly(Tyr-Ala-Glu), 264
Poly(Tyr-Glu-Ala-Gly), 265
Poly(U), 290ff
Poly(Val-Pro-Gly-Gly), 259
Polyacrylates, 151
Polyalkylene sulfide, 47
Polybutadiene, 156
—, 1,4-cis, 47
Polydiene, 47
Polyethylene, 328, 341–347, 352ff, 360–368, 378, 385–388
—, density, 340
—, terephtalate, 370
Polymer ABS, 170
Polymer blends, 142, 152, 170
Polymer capto oligoalkylene sulfide, 6, 47
Polymer, formation from oligomer, 2, 3
—, modification of, by oligomers, 4
Polymer properties, 67
Polymers (general), 323ff, 329–331, 337, 340–347, 350, 354, 360–366, 370, 378–385
Polymorphism, 72
Polyolefine, 324–331, 382, 385, 388ff
Polypropylene, 324, 329, 343–347, 352–357, 360–366, 378, 385–388, 394
—, fibers, 368
—, film, 328, 340, 348, 368ff
Polysaccharides, CD of, 302ff
Polystyrene, 156
Printing, 387ff
Purines, excited states of, 279, 283
PVC, 324, 328
Pyrimidiens, excited states of, 279, 283

Radiation, 336, 388
Raman circular intensity differential spectroscopy, 191
Random-coil polypeptides, CD of, 248ff
Rate constants, 98
Re-equilibration, 98
Reflection, CD measurements of, 187
Relaxation, 390
—, time, 363, 368ff
Resilience, 391
Resistance, 343, 386
RNA, CD of, 294, 295, 298ff
Rubbing, 329ff, 372–376

Shear, 372
Shedding, 391, 394
Sheet, 327ff, 350ff, 368
Shrinkage, 325ff, 348, 363, 367–371
Softness, 391
Solidifying, 346, 352
Solubility parameters, 158
Solvents, 385
Specific gravity, 324, 341–345, 352
—, of plasticizers, 324
Spherulites, 346
Spinneret, 323
Spinning of fibers, 389–392, 397
Split, 328–335, 340ff, 358ff, 368–379, 390, 396
Spun bonds, 395
Stabilization, 350ff, 370, 385
Stabilizers, general, 354, 378, 385ff, 384
Staple fibers, 323, 329, 333, 390, 396
Stress, 352, 368
Stress at break PET film, 331
Strength, 328, 344ff, 358, 362, 366ff, 390
Stretch, 325–381, 386–388
Stretching temperature, 370
Structure, 328, 331–335, 341, 346–352, 382ff, 391–394
Sugars, N-acetylamino, CD of, 303
Surface free energy, 77
Swelling, 385

Takayanagi model, 175
Tape, 324–328, 343–347, 352–359, 364–378, 386ff
Technical polymerization processes, 126
Telomerization, cationic, 11
—, condensation, 31, 35
—, radical, 6
Temperature, 329, 358–371, 385
Tenacity, 342ff, 349–370
Tensile strength, 324, 329, 340, 357ff
Textile spinning, 389
Texture, 331–340, 382

Thermal shrinkage, 344
Thermoplastic polymers, 385
Titer, 338
Twisting, 329ff, 343ff, 354, 356, 374ff, 390, 395

Ultrasonic, 331
Ultraviolet, 385–388
—, radiation, 385–386
—, vacuum, CD in, 184, 219, 243
Ungar's equations, 172

Vacuum ultraviolet, CD in, 184, 219, 243, 254, 297, 298, 303, 304

Washing, 387
Wear test, 346

X-ray diffraction, 348, 384
Xylose, 304

Yarn, 323, 329–334, 337–340, 344ff, 354ff, 359, 374, 382, 390ff

Erratum:

Hard-Elastic Fibers (A Review of a Novel State for Crystalline Polymers)

S. L. CANNON, G. B. MCKENNA, AND W. O. STATTON

Department of Materials Science and Engineering, University of Utah, Salt Lake City, Utah 84108

[Article appeared in *Macromolec. Rev.* **11**, 209–275 (1976)]

Figure 34 is improperly referenced to Wool, unpublished. It should be referenced to Park and Noether, *Colloid Polym. Sci.* **253**, 824 (1975).

J. POLYMER SCI.: Macromolecular Reviews, Vol. **12**, 421 (1977)
© 1977 by John Wiley & Sons, Inc.

Cumulative Index to Volumes 1–12

	VOL.	PAGE
Acrylic Monomers with Donor Monomers in the Presence of Lewis Acid, Mechanism of Alternating Copolymerization of (Hirai)	11	47
Addition Polymerization of Cyclobutene and Bicyclobutane Monomers (Hall and Ykman)	11	1
Alternating Copolymerization of Acrylic Monomers with Donor Monomers in the Presence of Lewis Acid, Mechanism of (Hirai)	11	47
Anionic Polymerization in Unsaturated Monomers, Homogeneous (Morton and Fetters)	2	71
Aromatic Heterocycles by Polyphosphoric Acid Solution Methods, New Polymers of (Yoda and Kurihara)	5	109
Aromatic Polymers (Braunsteiner and Mark)	9	83
Asymmetric-Selective (or Stereoselective) Polymers, Stereoselective and (Tsuruta)	6	179
Biological Molecules, Raman Spectroscopy of, A Review (Koenig)	6	59
Biopolymers, Optical Rotatory Properties (Woody)	12	181
Catalyst Composition, Relationship of, to Catalytic Activity for the Polymerization of α-Olefins (Coover, McConnell, and Joyner)	1	91
Cellulose Derivatives Containing Carboxylic Acid Groups (Allen and Cuculo)	7	189
Cement Concrete and Organic Polymers, Polyblends of (Rio and Cernia)	9	127
Chemistry of Unsaturated Ethylene-Propylene Based Terpolymers (Cesca)	10	1
Comb-Like Polymers, Structure and Properties (Plate and Shibaev)	8	117
Copolymerization in the Crystalline Solid State (Herz and Stannett)	3	1
Copolymers, The Physical Properties of Polyacrylonitrile and Its (Beevers)	3	113
Crazing and Fracture in Thermoplastics (Kambour)	7	1
Crystalline Solid State, Copolymerization in (Herz and Stannett)	3	1
Cyclobutene and Bicyclobutane Monomers, Addition Polymerization of (Hall and Ykman)	11	1
Degradation, Polymer, Dynamic Thermogravimetric Analysis in (Reich and Levi)	1	173
Dehydrochlorination and Stabilization of Poly(Vinyl Chloride), Thermal (Ayrey, Head, and Poller)	8	1
Differential Thermal Analysis Techniques, Polymer Degradation by (Reich)	3	49
DNA, Hydrodynamic Properties of (Bloomfield)	3	255
Dilute Polymer Solutions, Thermodynamic and Hydrodynamic Behavior of (Berry and Casassa)	4	1
Drag Reduction in Turbulent Flow by Polymer Additives (Lumley)	7	263

J. POLYMER SCI.: Macromolecular Reviews, Vol. 12, 423–425 (1977)
© 1977 by John Wiley & Sons, Inc.

Dynamic Thermogravimetric Analysis in Polymer Degradation (Reich and Levi) 1 173
Electrolytically Controlled Polymerizations (Funt) 1 35
Electron Spin Resonance of Polymers (Campbell) 4 91
Electron-Transfer Polymers (Oxidation-Reduction Polymers) (Cassidy) 6 1
Engineering, Polymerization Systems—A Literature Review (Fan and Shastry) 7 155
Ethylene-Propylene Based Terpolymers, Unsaturated, Chemistry of (Cesca) 10 1
Fiber, Film-to-Fiber Technology (Krässig) 12 323
Fibers, Hard-Elastic (Cannon, McKenna, and Statton) 11 209
Fibers, Hard-Elastic, Erratum (Cannon, McKenna, and Statton) 12 421
Growing Active Centers and Their Reactivities in "Living" Anionic Polymerizations of Styrene and its Derivatives (Hirohara and Ise) 6 295
Hydrodynamic Properties of DNA (Bloomfield) 3 255
Isocyanates in Polar Solvents, Synthesis of Polymers from (Ulrich) 11 93
Laser-Vibrational Scattering by Polymers (Schaufele) 4 67
"Living" Anionic Polymerizations of Styrene and Its Derivatives, Growing Active Centers and Their Reactivities in (Hirohara and Ise) 6 295
Living Polymers, the Use of, in the Preparation of Polymer Structures of Controlled Architecture (Henderson and Szwarc) 3 317
Mechanism of Alternating Copolymerization of Acrylic Monomers with Donor Monomers in the Presence of Lewis Acid (Hirai) 11 47
Monomers, Unsaturated, Homogeneous Anionic Polymerization in (Morton and Fetters) 2 71
Networks, Interpenetrating Polymer (Sperling) 12 141
Neutron Scattering, the Technique of, and Its Application to Polymers (Safford and Naumann) 2 1
New Polymers of Aromatic Heterocycles by Polyphosphoric Acid Solution Methods (Yoda and Kurihara) 5 109
NMR Observations of Polypeptide Conformation (Bovey) 9 1
Nonequilibrium Osmometry (Coll) 5 541
α-Olefins, Relationship of Catalyst Composition to Catalytic Activity for the Polymerization of (Coover, McConnell, and Joyner) 1 91
Oligomers, Polyreactive, The Progress in Chemistry of (Berlin and Matveyeva) 12 1
One Electron Transfer Initiated Polymerization Reactions. I. Initiation Through Monomer Cation Radicals (Gaylord) 4 183
One Electron Transfer Initiated Polymerization Reactions. II. Initiation Through Monomer Anion Radicals (Gaylord and Dixit) 8 51
Optically Active Polymers (Goodman, Abe, and Fan) 1 1
Osmometry Nonequilibrium (Coll) 5 541
Oxidation-Reduction Polymers, Electron-Transfer Polymers (Cassidy) 6 1
Participation of Sulfur Compounds in Vinyl and Related Polymerization (Ghosh) 5 195
Polyacrylonitrile and Its Copolymers, the Physical Properties of (Beevers) 3 113
Polyblends of Cement Concrete and Organic Polymers (Rio and Cernia) 9 127

Polyethers, Structure of Crystalline (Tadokoro) 1 119
Polyethylene Crystals (Fava) 5 1
Polyimides (Sroog) 11 161
Polymer Additives, Drag Reduction in Turbulent Flow by (Lumley) 7 263
Polymer Degradation, by Differential Thermal Analysis Techniques (Reich) 3 49
Polymerization Reactions, One Electron Transfer Initiated. I. Initiation Through Monomer Cation Radicals (Gaylord) 4 183
Polymerization, One Electron Transfer Initiated. II. Initiation Through Monomer Anion Radicals (Gaylord and Dixit) 8 51
Polymerization Systems Engineering—A Literature Review (Fan and Shastry) 7 155
Polymerization of Vinyl Ketones (Lyons) 6 251
Polymerizations, Electrolytically Controlled (Funt) 1 35
Polymers, Aromatic (Braunsteiner and Mark) 9 83
Polymers, Comb-Like Structure and Properties (Platé and Shibaev) 8 117
Polypeptide Conformation, NMR Observations of (Bovey) 9 1
Polyphenylenes (Noren and Stille) 5 385
Polypropylene, Syndiotactic (Youngman and Boor) 2 33
Poly-9-Vinylanthracene (Rembaum and Eisenberg) 1 57
Poly(Vinyl Alcohol), Stereochemistry of (Fujii) 5 431
Poly(Vinyl Chloride), The Thermal Dehydrochlorination and Stabilization of (Ayrey, Head, and Poller) 8 1
Radiation Chemistry of Polymers, Role of Free Radicals in the (Turner) 5 229
Raman Spectroscopy of Biological Molecules: A Review (Koenig) 6 59
Role of Free Radicals in the Radiation Chemistry of Polymers (Turner) 5 229
Rubberlike Networks and Their Bearing on the Foundations of Elasticity Theory, Thermoelastic Results on (Mark) 11 135
Space Charge Limited Currents in Polymers (Kryszewski and Szymanski) 4 245
Stereochemistry of Poly(Vinyl Alcohol) (Fujii) 5 431
Stereoselective and Asymmetric-Selective-(or Stereoselective) Polymers (Tsuruta) 6 179
Structure of Crystalline Polyethers (Tadokoro) 1 119
Sulfur Compounds in Vinyl and Related Polymerization, Participation of (Ghosh) 5 195
Synthesis of Polymers from Isocyanates in Polar Solvents (Ulrich) 11 93
Thermodynamic and Hydrodynamic Behavior of Dilute Polymer Solutions (Berry and Casassa) 4 1
Thermoelastic Results on Rubberlike Networks and Their Bearing on the Foundations of Elasticity Theory (Mark) 11 135
Thermogravimetric Analysis, Dynamic, in Polymer Degradation (Reich and Levi) 1 173
Thermoplastics, A Review of Crazing and Fracture in (Kambour) 7 1
Vinyl Ketones, Polymerization of (Lyons) 6 251
Viscoelasticity of Solid Polymers (in Uniaxial Tensile Loading), Nonlinear (Yannas) 9 163
Ziegler-Type Catalyst, The Nature of the Active Site in the (Boor) 2 115